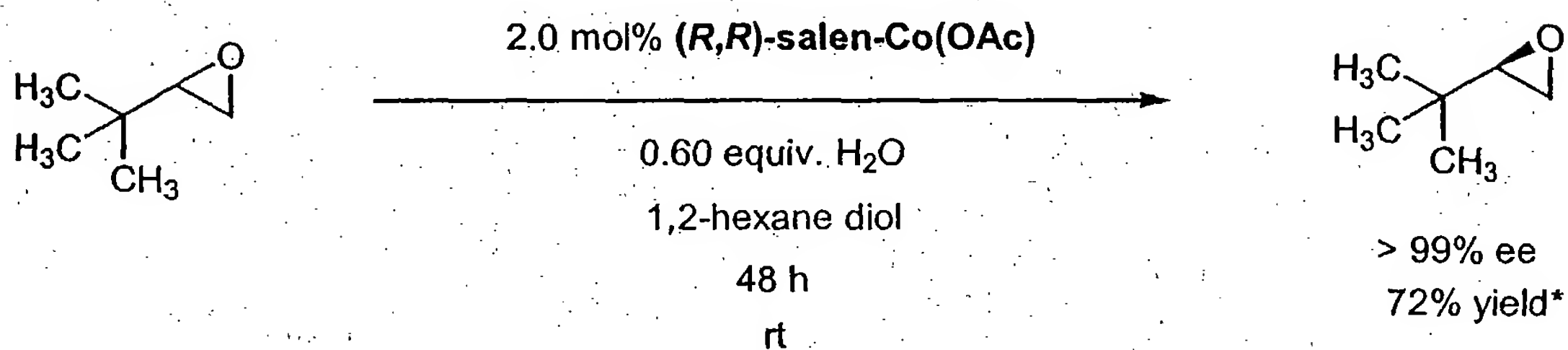


Figure 1

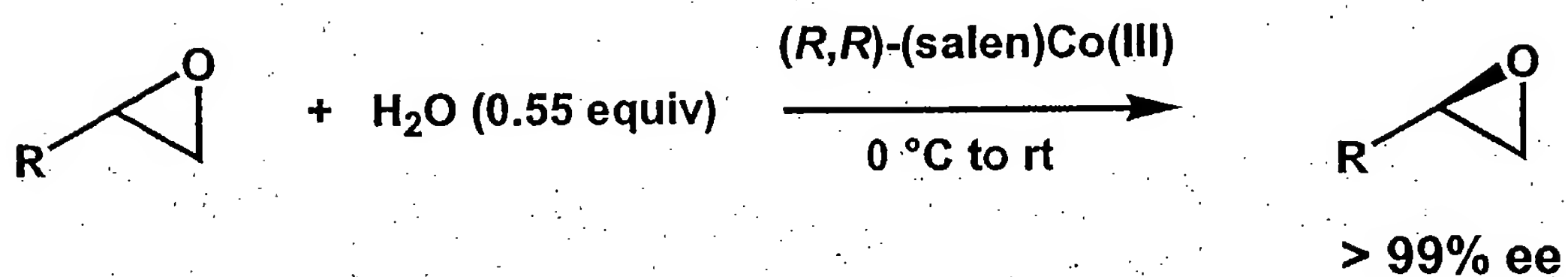
## *HKR of tert-Butylethyleneoxide*



\* Yield is expressed as a percentage of the theoretical maximum of 50%

Figure 2

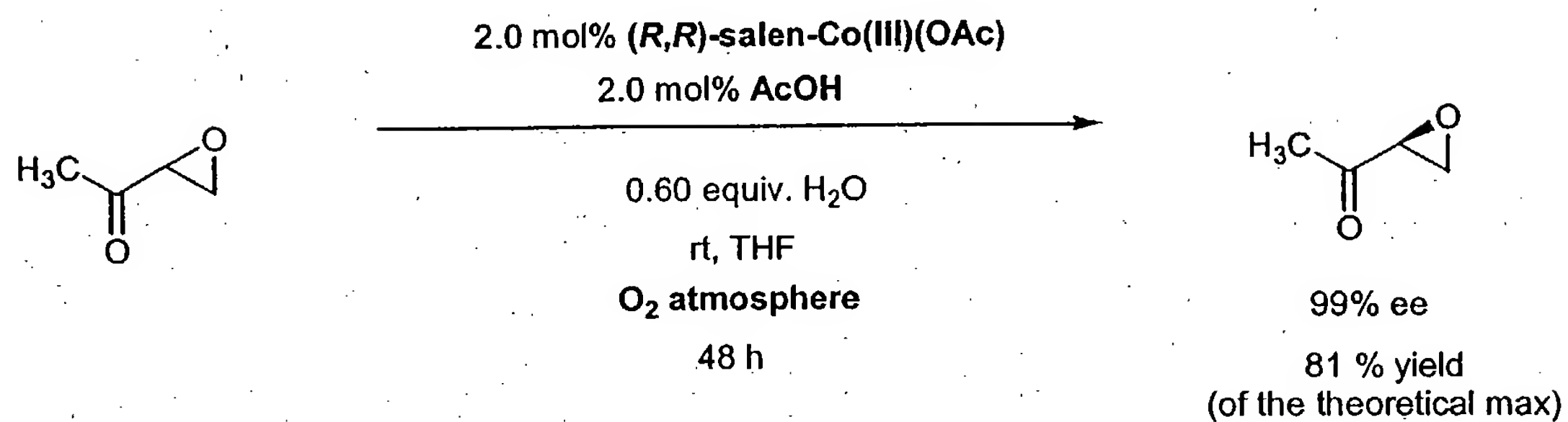
### HKR of Alkyl-Substituted Terminal Epoxides



R	Catalyst (mole %)	Yield (% of theoretical)
Me	0.2	94
<i>n</i> -Bu	0.2	86
<i>n</i> -C <sub>12</sub> H <sub>25</sub>	0.5	86
CH <sub>2</sub> =CH(CH <sub>2</sub> ) <sub>2</sub>	0.5	85
cyclohexyl	0.5	87
PhCH <sub>2</sub>	0.5	92

Figure 3

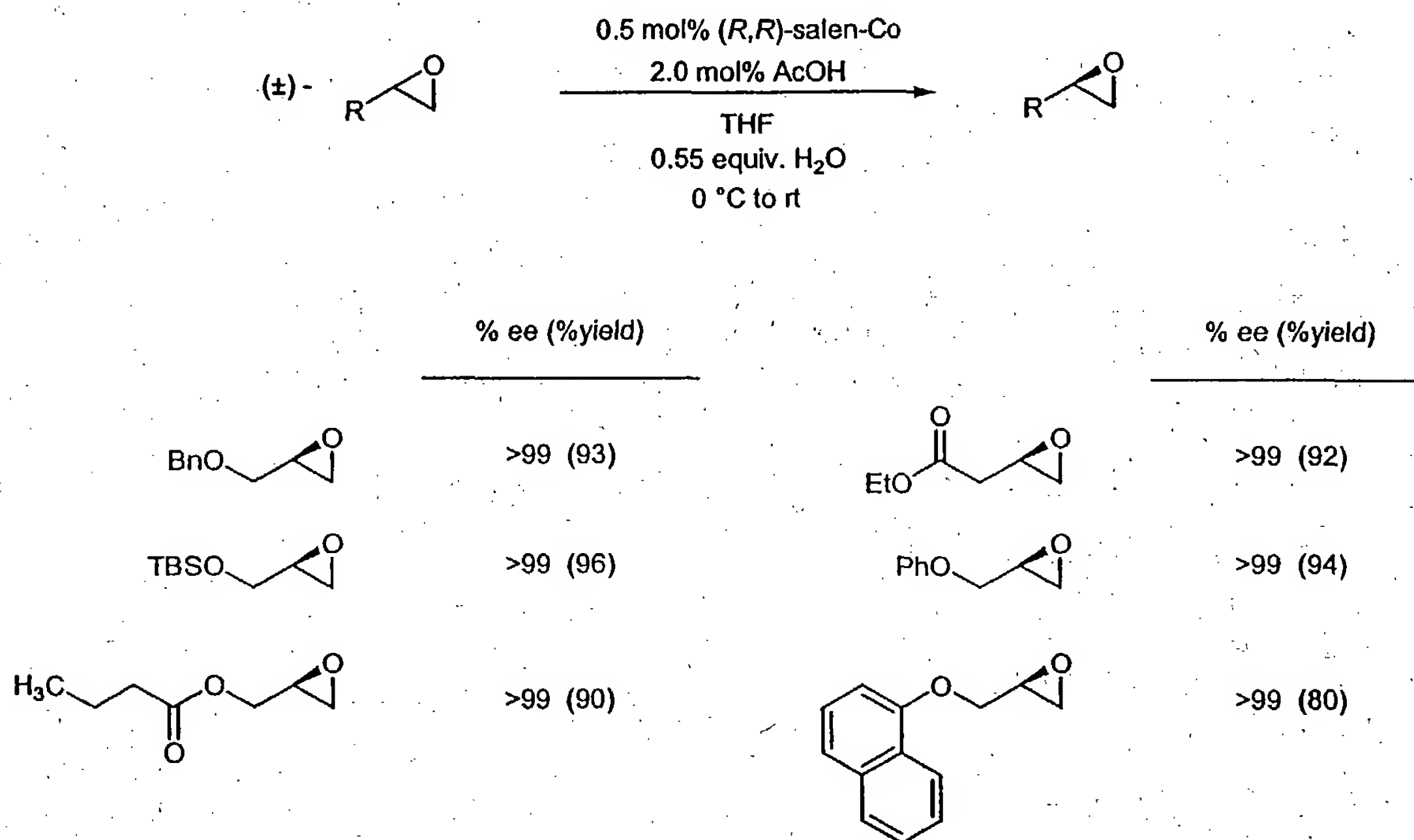
### *HKR of 3,4-Epoxy-2-butanone*



- without O<sub>2</sub>, the catalyst reduces out in 6 h with recovered epoxide in 76% ee
- preoxidation of catalyst is required

Figure 4

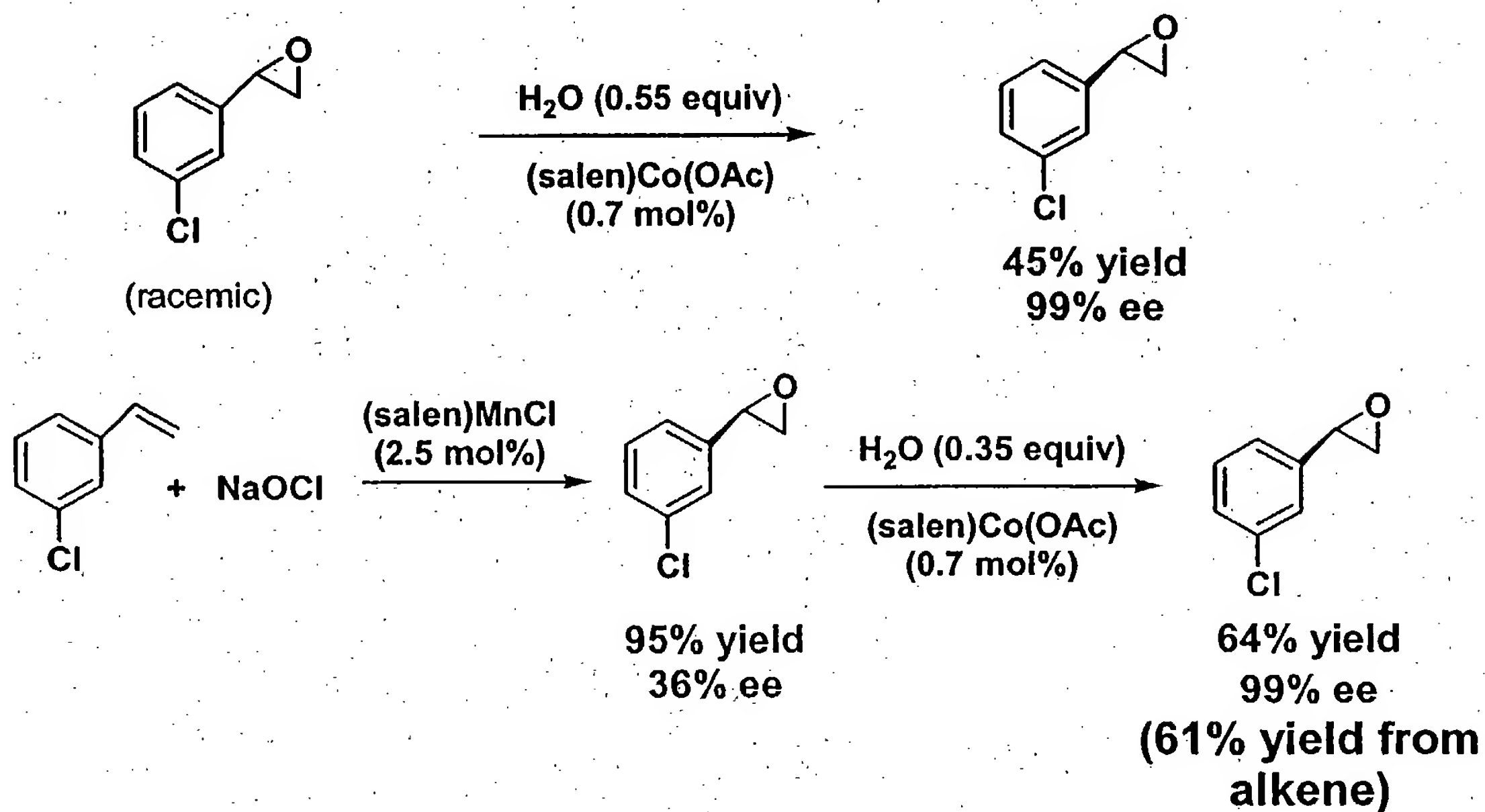
## Hydrolytic Kinetic Resolution of Terminal Epoxides



\* Yields reported as a theoretical maximum of 50%

Figure 5

**Kinetic Resolution of m-Chlorostyrene Oxide**



Brandes *Tetrahedron: Asymm* 1997, 8, 3927